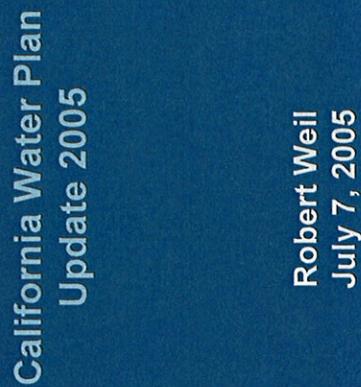


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**Appendix D**  
**July 7, 2005 Public Meeting / Public Notice**  
**and Presentation Slides**

## Topics

- Background
- New Process & New Features
- Strategic Plan (A Framework for Action)
- Preparing for the Future (Scenarios)
- Key Points for American Canyon



## The California Water Plan

- First published in 1957 as Bulletin 3
- Updated 7 times (Bulletin 160); last one in 1998
- Previous Updates identified a supply-demand gap and ways to "fill the gap"
- Growing interest by Legislature and stakeholders in update process and more comprehensive content

## Background

## Key Purposes of Water Plan

### Framework for California Water Policy

### Resource for Water Community

- Current supplies and water uses
- Future scenarios and potential water demands
- Information on management strategies for developing local plans and implementing solutions

### Important Footnotes

- No mandates; No spending authorizations
- Not project or site specific; No CEQA

## New Process & New Features

### New Process

#### Have open & transparent public process

- Website, meetings, share interim products

#### Seek collaborative recommendations

- 65-person Advisory Committee & 350-person Extended Review Forum

#### Prepare a strategic plan

- Strategic planning guidelines

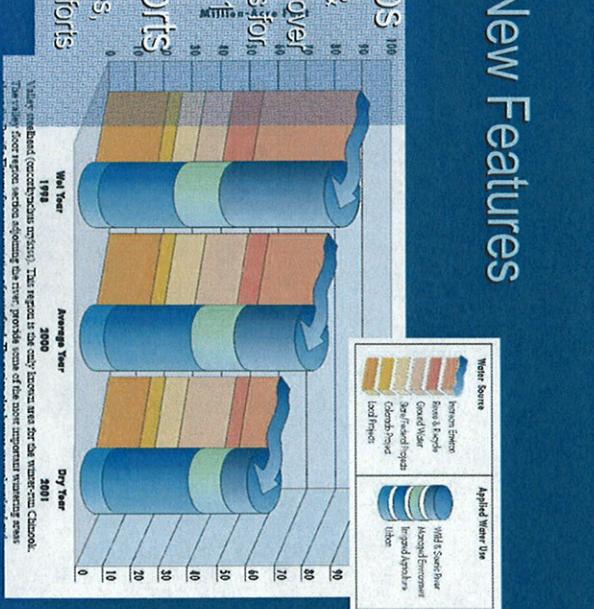
### New Features

#### Water Portfolios

- Hydrologic cycle & water quality with over 80 data categories for 1998, 2000 & 2001

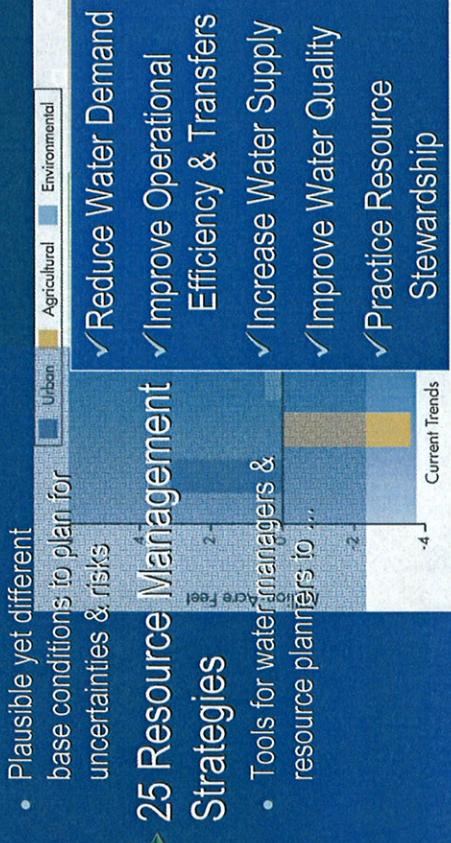
#### Regional Reports

- Setting, challenges, goals, planning efforts & water portfolio



## New Features

### ► Multiple Future Scenarios



## Strategic Plan

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## A Framework for Action

## Framework for Action

### Sustainable & Reliable Water in 2030

Vision



## Foundational Action

### Use Water Efficiently

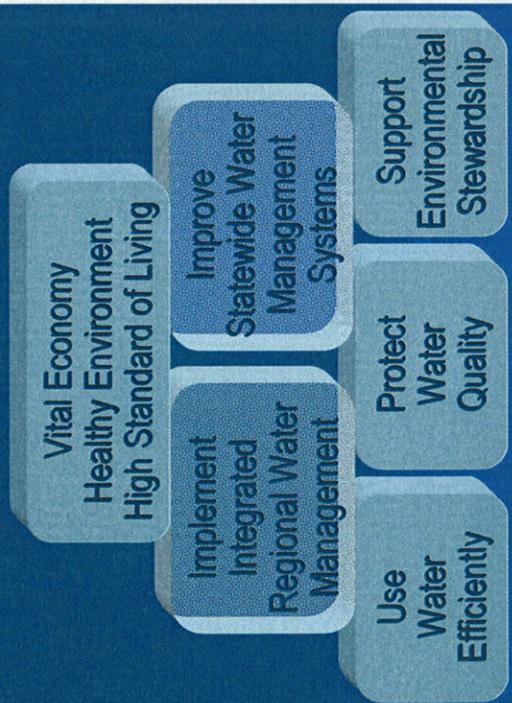
- ▲ Increase urban and agricultural water use efficiency
- ▲ Increase recycling & reuse
- ▲ Reoperate facilities to improve efficiencies
- ▲ Facilitate transfers to avoid regional shortages
- ▲ Eliminate groundwater overdraft

## Foundational Action

### Use Water Efficiently

## Foundational Action

### Use Water Efficiently



2 Initiatives  
Ensure Reliable  
Water Supply

3 Foundational  
Actions Ensure  
Sustainable  
Water Use

## Foundational Action

### Protect Water Quality

- Protect supply sources from contamination
- Explore new treatment technologies
- Match water quality to use
- Improve runoff management
- Improve watershed management



## Foundational Action

### Support Environmental Stewardship

- Integrate ecosystem restoration with water & land use planning
- Restore aquatic ecosystems
- Minimize alteration of ecosystems
- Protect public trust resources
- Integrate flood management with supply management

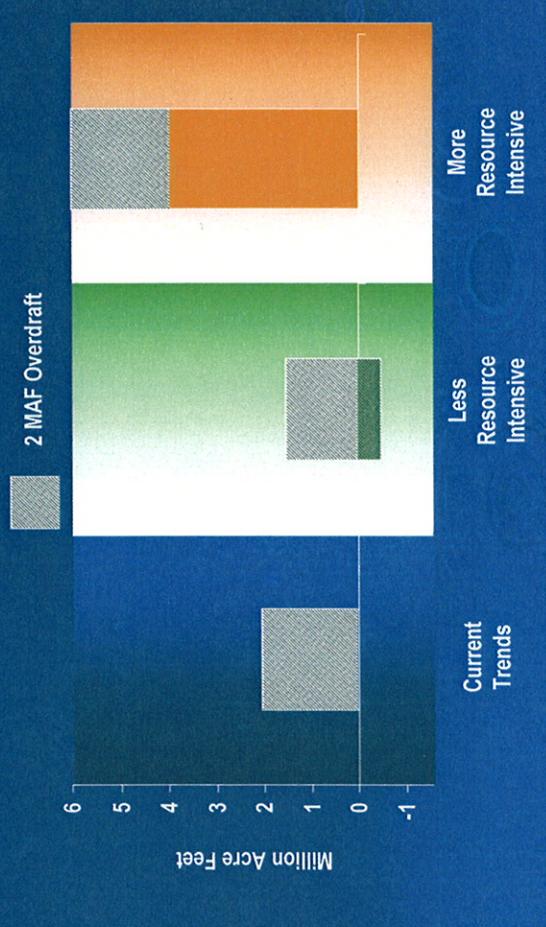


## Preparing for the Future

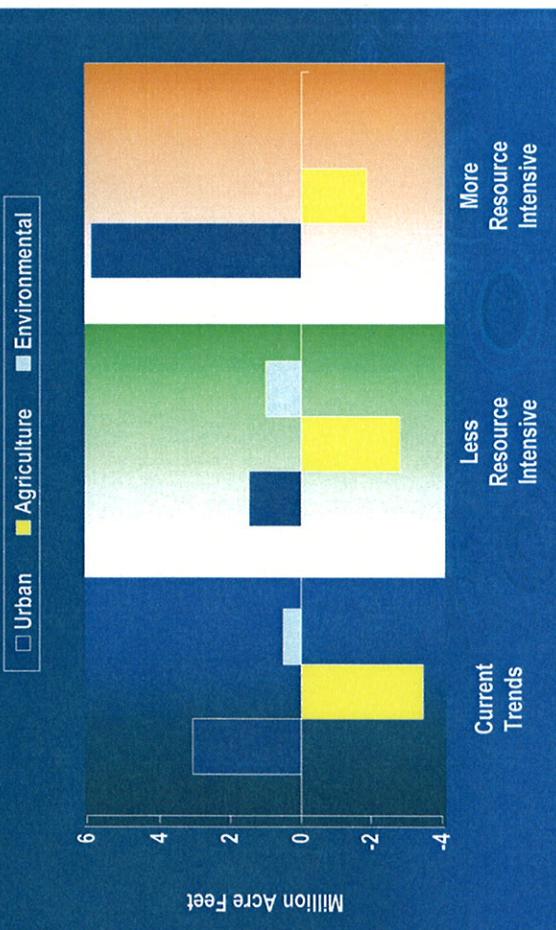
### 3 Scenarios for 2030 Plausible Yet Different Baseline Futures

- **Current Trends**      ✓ Recent trends continue into the future
- **Less Resource Intensive**      ✓ Higher agric. & industrial production  
✓ More water for the environment  
✓ More background water conservation
- **More Resource Intensive**      ✓ Higher population growth  
✓ Higher agric. & industrial production  
✓ Hold Environ. water at 2000 level  
✓ Less background water conservation

## Statewide Scenario Demand Changes Plus Groundwater Overdraft



## Statewide Scenario Demand Changes by Sector



## Key Points for American Canyon

### ➤ Emphasis on Recycling and Conservation

- Meets water supply
- Ensures vital economy
- Protects Environment
- American Canyon's Investments in Wastewater/Recycled Water will pay dividends

### ➤ Integration of Agriculture, Municipal and Environmental Water Uses

- Prevent Groundwater Overdraft
- Key Issue in Napa 2050 Water Study
- Water Transfers Encouraged

## Presentation Topics

### Special Presentation to City Council on Water Conservation

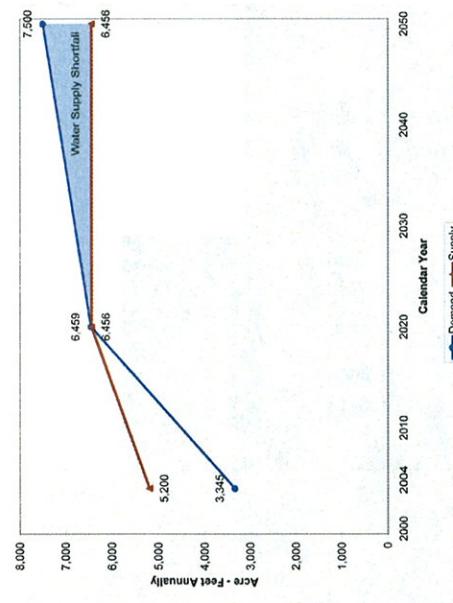
July 7, 2005



1. American Canyon water supply shortfall
2. Cost effectiveness of water conservation
3. California Urban Water Conservation Council
4. Water use breakdown by sector
5. Residential and commercial water use and potential savings
6. Conclusions
7. Questions and Answers

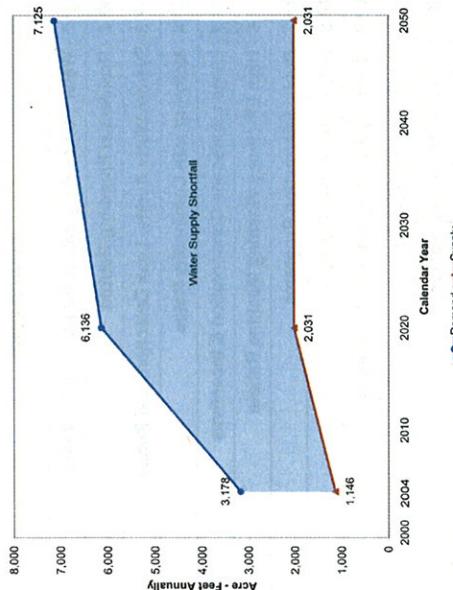
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## Projected Water Demand and Supply



Sources:  
2050 Napa Valley Water Resources Study, West Yost and Associates

## Projected Water Demand and Supply for Single Dry Year Scenario

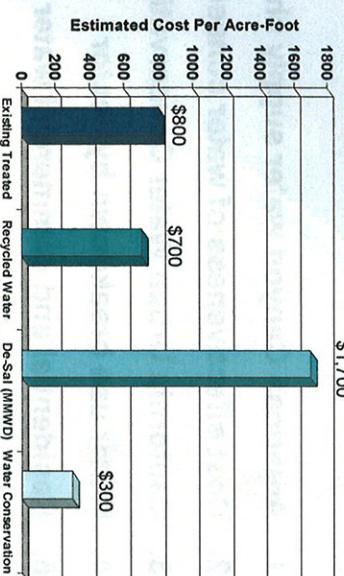


Note: Demand figures assume 5% mandatory emergency water conservation  
Sources:  
2050 Napa Valley Water Resources Study, West Yost and Associates

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## Water Supply Cost Comparison



### Added Benefit

- Implementation of water conservation allows opportunities for Proposition 50 and other state and federal grants

## California Urban Water Conservation Council

➤ MOU signed 5/7/1998

➤ Signatories pledge "good faith effort" to implement BMPs that are cost-effective within 10 years

➤ CUWCC provides guidelines and standard BMPs and support in implementation

## Water Conservation Best Management Practices

### CUWCC BMPs

- BMP 1 - Water Survey Program for Residential Customers
- BMP 2 - Residential Plumbing Retrofit
- BMP 3 - System Water Audits, Leak Detection, and Repair
- BMP 4 - Metering with Commodity Rates
- BMP 5 - Large Landscape Conservation & Incentives
- BMP 6 - High Efficiency Washing Machine Rebate
- BMP 7 - Public Information Programs
- BMP 8 - School Education Program
- BMP 9 - Conservation Program for CII Accounts
- BMP 11 - Conservation Pricing
- BMP 12 - Conservation Coordinator
- BMP 13 - Water Waste Prohibition
- BMP 14 - Residential Toilet Replacement Program

## The BMPs Emphasize Continued Progress Towards Conservation

### Increase in Costs

- Large Landscape Ordinance
- Conservation Pricing
- Water Waste Prohibition
- Residential Surveys
- Residential Fixture Replacement
- Residential Clothes Washer Rebates
- Large Landscape Retrofits
- Distribution System Audits and Repairs
- Water Meter Retrofits

### Policy BMPs

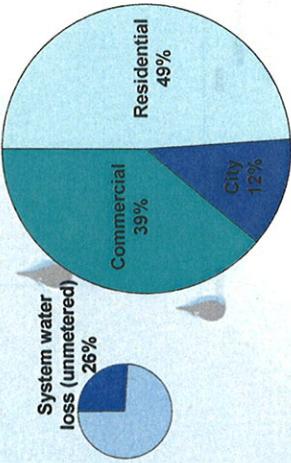
### Programmatic BMPs

### Structural BMPs

## Water Demand by Sector and Water Loss

Total Water Consumption in 2002:  
754 million gallons (2,315 Acre-Feet)

### American Canyon Metered Water Consumption by Category



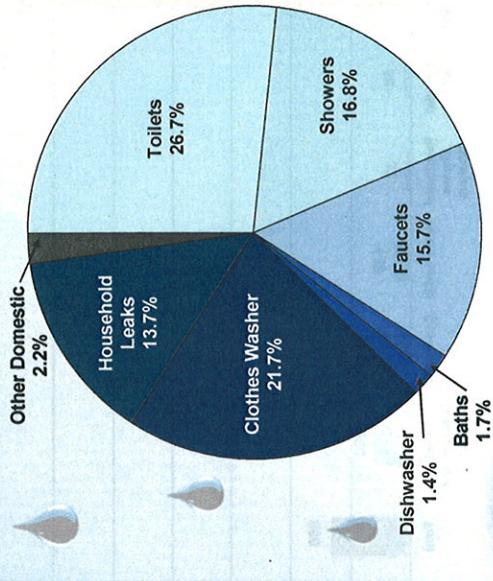
#### Notes:

1. Total Water Demand is Equal to 220 gallons per capita per day. (Source: City Records)
2. For the residential sector, water demand is approximately 89 gallons per capita per day.
3. State average is 196 gallons per capita per day.

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## Indoor Residential Water Use

### National Average Indoor Use in a Non - Conserving Home



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## A Significant Potential for Water Savings in Homes

### Three Residential Water Conservation Examples:

1. Ultra Low - Flow Toilet replacement 50% of Pre – 1992 homes  $\approx$  50 AFA
2. High-Efficiency residential clothes washer replacements in 50% of all households  $\approx$  30 AFA
3. Residential Water audits with fixture installation in 50% of households  $\approx$  130 AFA  
Total = 210 AFA

## Potential Water Savings from Commercial Water Conservation

### One Commercial Water Conservation Program

#### Example:

- Water use audit
- Toilet retrofit
- Upgrade to efficient appliances
- Increased landscape irrigation system efficiency

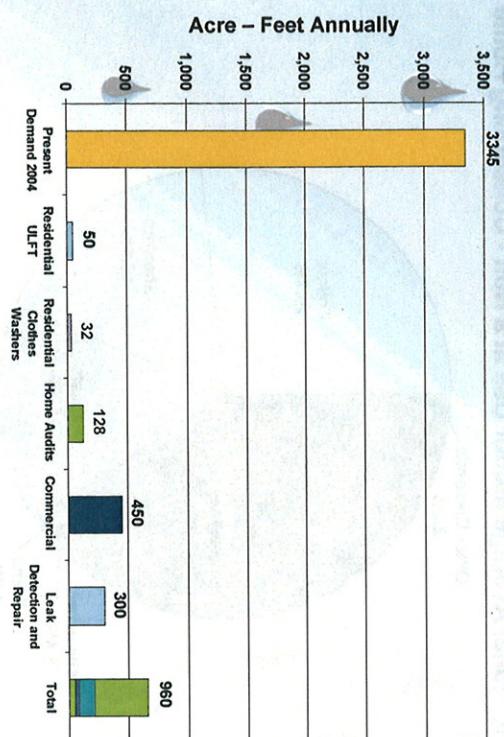
### 15% - 30% Water Savings

For American Canyon this could save approximately 400 – 625 AFA

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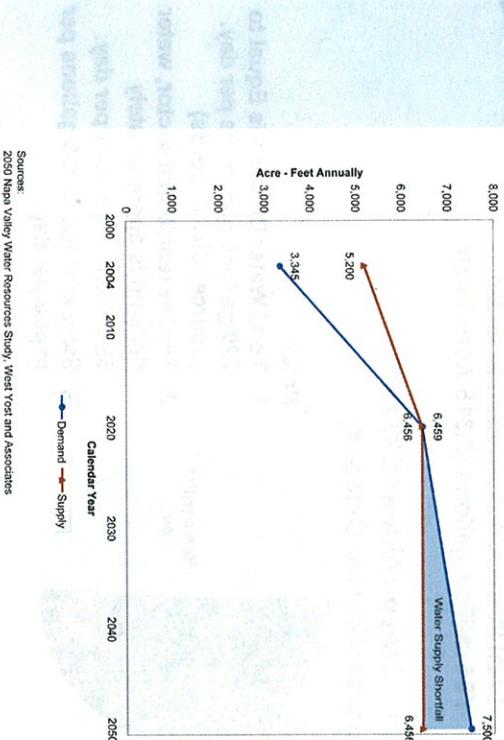
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## Potential Water Savings from Selected Water Conservation Programs Compared to Current Demand



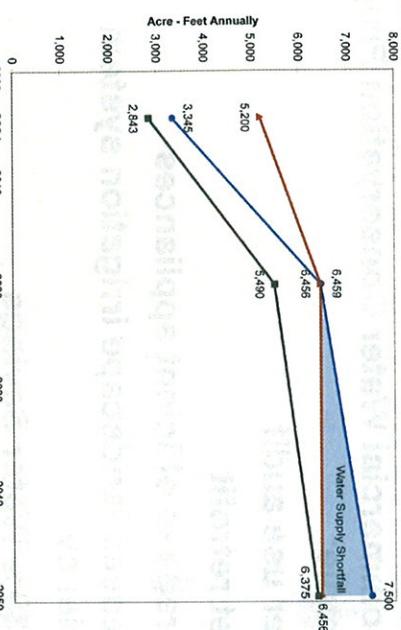
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## Supply and Demand Projections without Water Conservation



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## Supply and Demand with Future Potential Savings in Water Conservation



Legend:  
— Demand — Supply — Demand with Conservation

Sources:  
2050 Napa Valley Water Resources Study, West Yost and Associates

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## Conclusions

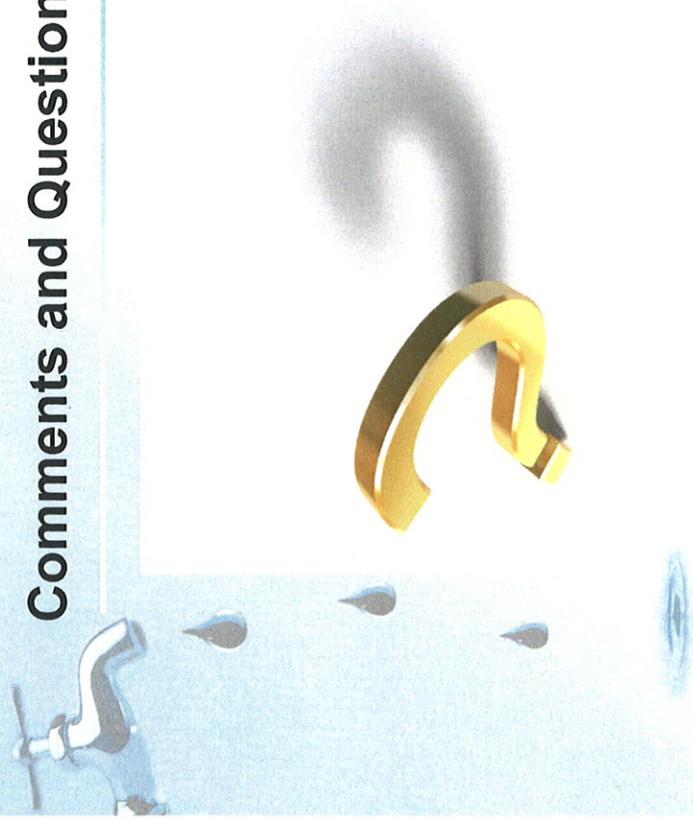
- With projected population growth, American Canyon faces a water supply shortfall in less than 20 years.
- In the event of a drought, American Canyon faces a water supply shortfall now.
- Water conservation would reduce water supply shortfall.
- Water conservation is cost-effective.
- Implementing water conservation BMPs enhances grant funding opportunities.

AMERICAN CANYON  
WATER CONSERVATION  
PROGRAM

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## Comments and Questions

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**NOTICE OF PUBLIC MEETING  
FOR INFORMATION PERTAINING TO  
THE CITY OF AMERICAN CANYON  
WATER CONSERVATION PROGRAM**

NOTICE IS HEREBY GIVEN that the Public Works Department of the City of American Canyon will conduct a special presentation on the City's Water Conservation Program on July 7, 2005, at 7:30 P.M. in the Council Chambers at the Recreation Center at 2185 Elliott Drive, American Canyon, to provide an opportunity for the City Council and the general public to provide input regarding the City's Water Conservation Program. The purpose of the presentation is to educate the public on the various water conservation measures available and to update the Council on the City's progress on the implementation of the program.

For any questions regarding the meeting, contact Robert Weil, Public Works Director, at (707) 647-4550.